

Title (en)

NON-STEROIDAL (HETERO) CYCLICALLY SUBSTITUTED ACYLANILIDES WITH MIXED GESTAGEN AND ANDROGEN ACTIVITY

Title (de)

NICHTSTEROIDALE (HETERO)ZYKLISCH-SUBSTITUIERTE ACYLANILIDE MIT GEMISCHTER GESTAGENER UND ANDROGENER WIRKSAMKEIT

Title (fr)

ACYLANILIDES NON STEROIDIQUES HETEROCYCLIQUEMENT SUBSTITUES A EFFET MIXTE GESTAGENE ET ANDROGENE

Publication

EP 0986545 B1 20041229 (DE)

Application

EP 98928338 A 19980602

Priority

- DE 19723722 A 19970530
- EP 9803242 W 19980602

Abstract (en)

[origin: WO9854159A1] The invention relates to non-steroidal gestagens of general formula (I), wherein R<1> and R<2> are the same or different and stand for a hydrogen atom, a C1-C5 alkyl group or a halogen atom, or together with the C atom of the chain stand for a ring with 3-7 units, R<3> means a C1-C5 alkyl group or a partially or fully fluorinated C1-C5 alkyl group, A stands for an optionally substituted mono or bi-cyclic aromatic ring, an ester group -COOR<4>, an alkenyl group -CR<5>=CR<6>R<7>, an alkynyl group -CCR<5> or for a partially or fully fluorinated C1-C5 alkyl group, B means a carbonyl group or a CH₂ group and Ar is a ring system selected from the group of general partial formulae (2-11). When B represents a CH₂ group in general formula (I), Ar additionally means a phenyl radical of partial general formula (12). The novel compounds display a very strong affinity to the gestagen receptor. They can be used on their own or in combination with oestrogen's in contraceptive preparations. They can also be used in the treatment of endometriosis. They can be used with oestrogen's in preparations for the treatment of gynaecological disorders. They can also be used to treat pre-menstrual complaints and in substitution therapy. Their androgen activity enables them to be used for male fertility control, male HRT and to treat andrological syndromes.

IPC 1-7

C07D 249/18; A61K 31/41; C07D 271/12; C07D 285/10; C07C 235/26; A61K 31/16; C07D 307/88; A61K 31/365; C07D 333/72; A61K 31/38; C07D 311/76; C07D 265/02; A61K 31/535; C07D 237/32; A61K 31/50

IPC 8 full level

A61K 31/136 (2006.01); **A61K 31/16** (2006.01); **A61K 31/167** (2006.01); **A61K 31/343** (2006.01); **A61K 31/365** (2006.01); **A61K 31/366** (2006.01); **A61K 31/38** (2006.01); **A61K 31/381** (2006.01); **A61K 31/41** (2006.01); **A61K 31/4245** (2006.01); **A61K 31/50** (2006.01); **A61K 31/535** (2006.01); **A61K 31/536** (2006.01); **A61P 5/26** (2006.01); **A61P 5/34** (2006.01); **A61P 15/00** (2006.01); **A61P 15/12** (2006.01); **A61P 15/18** (2006.01); **C07C 225/22** (2006.01); **C07C 235/26** (2006.01); **C07C 235/32** (2006.01); **C07C 235/38** (2006.01); **C07C 235/84** (2006.01); **C07C 255/57** (2006.01); **C07D 237/28** (2006.01); **C07D 237/32** (2006.01); **C07D 249/18** (2006.01); **C07D 265/02** (2006.01); **C07D 271/08** (2006.01); **C07D 271/12** (2006.01); **C07D 285/10** (2006.01); **C07D 285/14** (2006.01); **C07D 307/88** (2006.01); **C07D 307/94** (2006.01); **C07D 311/76** (2006.01); **C07D 333/72** (2006.01); **C07D 409/12** (2006.01)

CPC (source: EP KR)

A61P 5/26 (2018.01 - EP); **A61P 5/34** (2018.01 - EP); **A61P 15/00** (2018.01 - EP); **A61P 15/12** (2018.01 - EP); **A61P 15/18** (2018.01 - EP); **C07C 225/22** (2013.01 - EP); **C07C 235/38** (2013.01 - EP); **C07C 235/84** (2013.01 - EP); **C07C 255/57** (2013.01 - EP); **C07D 237/32** (2013.01 - EP); **C07D 249/18** (2013.01 - EP KR); **C07D 265/02** (2013.01 - EP); **C07D 271/08** (2013.01 - EP); **C07D 285/10** (2013.01 - EP); **C07D 307/88** (2013.01 - EP); **C07D 307/94** (2013.01 - EP); **C07D 311/76** (2013.01 - EP); **C07D 333/72** (2013.01 - EP); **C07D 409/12** (2013.01 - EP); **C07C 2602/08** (2017.05 - EP)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9854159 A1 19981203; AR 011480 A1 20000816; AT E286035 T1 20050115; AU 747083 B2 20020509; AU 747083 C 20040129; AU 8021198 A 19981230; BG 103903 A 20000428; BG 64212 B1 20040531; BR 9809703 A 20000711; CA 2305458 A1 19981203; CA 2305458 C 20070501; CN 100445272 C 20081224; CN 1258286 A 20000628; CZ 296377 B6 20060315; CZ 425799 A3 20000412; DE 19723722 A1 19981210; DE 59812452 D1 20050203; EA 004306 B1 20040226; EA 199900989 A1 20000828; EE 04492 B1 20050615; EE 9900548 A 20000615; EP 0986545 A1 20000322; EP 0986545 B1 20041229; ES 2234121 T3 20050616; HR P980289 A2 19990228; HR P980289 B1 20050831; HU P0002126 A2 20010628; HU P0002126 A3 20021228; ID 23499 A 20000427; IL 133195 A0 20010319; IL 133195 A 20070724; IS 2498 B 20090215; IS 5241 A 19991109; JP 2002502385 A 20020122; KR 100536870 B1 20051216; KR 20010013123 A 20010226; NO 325076 B1 20080128; NO 995845 D0 19991129; NO 995845 L 20000127; NZ 501359 A 20011130; PL 197887 B1 20080530; PL 337088 A1 20000731; PT 986545 E 20050429; SK 160999 A3 20000711; SK 284943 B6 20060202; TR 199902924 T2 20000221; TW 577882 B 20040301; UA 64752 C2 20040315; ZA 984655 B 19990316

DOCDB simple family (application)

EP 9803242 W 19980602; AR P980102552 A 19980601; AT 98928338 T 19980602; AU 8021198 A 19980602; BG 10390399 A 19991119; BR 9809703 A 19980602; CA 2305458 A 19980602; CN 98805597 A 19980602; CZ 425799 A 19980602; DE 19723722 A 19970530; DE 59812452 T 19980602; EA 199900989 A 19980602; EE P9900548 A 19980602; EP 98928338 A 19980602; ES 98928338 T 19980602; HR P980289 A 19980529; HU P0002126 A 19980602; ID 989914 A 19980602; IL 13319598 A 19980602; IL 13319599 A 19991129; IS 5241 A 19991109; JP 50026799 A 19980602; KR 19997011103 A 19980602; NO 995845 A 19991129; NZ 50135998 A 19980602; PL 33708898 A 19980602; PT 98928338 T 19980602; SK 160999 A 19980602; TR 9902924 T 19980602; TW 87108524 A 19980601; UA 99127245 A 19980602; ZA 984655 A 19980529